

Title (en)
DETECTION AND QUANTIFICATION OF BRAIN MOTION AND PULSATILITY

Title (de)
NACHWEIS UND QUANTIFIZIERUNG DER HIRNBEWEGUNG UND -PULSATILITÄT

Title (fr)
DéTECTION ET QUANTIFICATION DE MOUVEMENT CÉRÉBRAL ET DE PULSATILITÉ

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Application
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Abstract (en)
[origin: WO2018031477A1] The pumping of arterial blood into the cerebral spinal fluid (CSF) of a patient's brain creates cycle pressure undulations in the CSF and the brain itself. Brain injuries can create abnormal changes in this pressure waveform. Accordingly, the disclosed technology includes an ultrasound based device for monitoring this brain movement in the CSF ("pulsatility") to diagnose and monitor brain injury.

IPC 8 full level
A61B 8/08 (2006.01)

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A61B 8/5284 (2013.01 - US); **A61B 8/543** (2013.01 - EP US); **A61B 8/4227** (2013.01 - EP)

Citation (search report)
• [A] KUCEWICZ J C ET AL: "Tissue Pulsatility Imaging of Cerebral Vasoreactivity During Hyperventilation", ULTRASOUND IN MEDICINE AND BIOLOGY, NEW YORK, NY, US, vol. 34, no. 8, 1 August 2008 (2008-08-01), pages 1200 - 1208, XP023176823, ISSN: 0301-5629, [retrieved on 20080312], DOI: 10.1016/J.ULTRASMEDBIO.2008.01.001
• See references of WO 2018031477A1

Cited by
EP3534777A4; US11760905B2

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